- (12) AUSTRALIAN PATENT ABSTRACT
- (19) AU

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- (54) ROTABLE BULB SPIRIT LEVEL
- (75) KEN ROONEY
- (21) 13950/83 (22) 17.5.82 (23) 26.4.83 (24) 17.5.82
- (43) 24.11.83
- $(51)^3$  G01C 9/28 G01C 9/34
- (57) Claim
- 1. THE MULTILEVEL IS CONSTRUCTED OF ALUMINIUM BOX SECTION CLOSED IN AT BOTH ENDS.
  - 2. IT WOULD BE CONSTRUCTED IN VARIOUS LENGTHS TO SUIT DIFFERENT APPLICATIONS.
  - 3. THE BUBBLE COG ASSEMBLY FIG.1 CONSISTS OF A COMMERCIALY AVAILABLE BUBBLE HOUSED IN A HOLLOW NYLON COG, GLASSED IN AT EACH END.
  - 4. THE BUBBLE ASSEMBLY IS ROTATED FROM THE END (DRAWING 1) BY A NYLON WORM GEAR FIG.2., OR FROM THE SIDE (DRAWING 2) BY A 20:1 REDUCTION NYLON GEAR DRIVE.
  - 5. BOTH DRIVE SYSTEMS WOULD HAVE BRASS SHAFTS AND WOULD HAVE A SPRING LOADED RATCHET SYSTEM TO STOP UNWANTED MOVEMENT FIG. 4.

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PATENTS ACT 1952-1973

Form 10

# COMPLETE SPECIFICATION

(ORIGINAL)

FOR OFFICE USE	
Class:	
Int. CI:	
Application Number: 13950 83	
Complete Specification—Lodged:	
Accepted: Published:	
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Related Art:	
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Name of Applicant:  Name of Applicant:  Name of Applicant:	
Address of Applicant: TINGHA RD INVERELL	
Actual Inventor: KEN ROONEY	
Address for Service: "EL RANCHO" TINGHA RO INVERELL	
Complete Specification for the invention entitled:	
The following statement is a full description of this invention, including the best method of performing it kn to me:—*	iown

<sup>\*</sup>Note: The description is to be typed in double spacing, pica type face, in an area not exceeding 250 mm in depth and 160 mm in width, on tough white paper of good quality and it is to be inserted inside this form.

SPECIFICATION

5.

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3 SHEETS

SHEET 1

### INTRODUCTORY STATEMENT

The invention called a Multilevel is similar to a conventional Spirit Level but with a rotatable level bubble assembly which allows it to check, decipher, transfer or set out any angle or level. Whereas a conventional Level only checks vertical or horozontal and sometimes 45 degrees.

AUSTRALIAN
1 6 JUN 1983
PATENT OFFICE

SPECIFICATION 3

3 SHEETS

SHEET 2

#### DETAILED DISCRIPTION

The Multilevel consists of a level bubble (Fig 8) housed in a hollow cog assembly glassed in at both

5. ends (Fig 1).

This assembly is rotated by either a worm drive gear from the end (Fig 2) or by a 20:1 reduction gear drive from the side (Fig 3).

Both systems would have a ratchet system (Fig 4)

10. to stop unwanted movement.

There would be a fixed scale 0'-90' on both sides of the body (Fig 5). There would be an indicating arrow on the rotatable bubble assembly to indicate the angle checked. The Multilevel would have two

15. fixed bubbles to check vertical and horozontal.

The above is housed in aluminium box section

closed in at both ends.

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### SPECIFICATION 3 SHEETS SHEET 3

## THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

- 1. The Multilevel is constructed of aluminium box section closed in at both ends.
- 5) 2. It would be constructed in various lengths to suit different applications.
  - 3. The bubble cog assembly (Fig 1) consists of a commercially available bubble housed in a hollow nylon cog, glassed in at each end.
- 10) 4. The bubble assembly is rotated from the end
  (Drawing 1) by a nylon worm gear (Fig 2) or
  from the side (Drawing 2) by a 20:1 reduction
  nylon gear drive.
- 5. Both drive systems would have brass shafts and would have a spring loaded ratchet system to stop unwanted movement (Fig 4).
  - 6. The Multilevel would also have two fixed bubbles (Fig 8) to check vertical and horozontal.

    Dated this. 974....day of JUNE.....19.83.

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KEN ROONEY
NAME OF APPLICANT



